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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/164,624	10/01/1998	YOSHIHIRO ISHIDA	35.C-13000	6892	
5514	7590 09/22/2005		EXAMINER		
	FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			YE, LIN	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER	
	,		2615		

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/164,624	ISHIDA ET AL.	
	Office Action Summary	Examiner	Art Unit	-
		Lin Ye	2615	
Period f	The MAILING DATE of this communication apor Reply	pears on the cover sheet with the	correspondence address	
WHIC - Exte afte - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DESIGNATION OF THE	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. TO (35 U.S.C. § 133).	
Status				
1) 又	Responsive to communication(s) filed on 29 J	luly 2005		
		s action is non-final.		
3)	, <del></del>		osecution as to the merits is	
-,	closed in accordance with the practice under	•		
Disposit	ion of Claims	, , , , , , ,		
4)⊠	Claim(s) <u>24-41</u> is/are pending in the application	on		
,,	4a) Of the above claim(s) is/are withdra			
5)	Claim(s) is/are allowed.	an nom conclusion.		
· —	Claim(s) <u>24-41</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
′=	Claim(s) are subject to restriction and/o	or election requirement.		
	ion Papers	4		
	•		,	
	The specification is objected to by the Examine			
10)[	The drawing(s) filed on <u>01 October 1998</u> is/are			
	Applicant may not request that any objection to the		• •	
111	Replacement drawing sheet(s) including the correct			
''/	The oath or declaration is objected to by the Ex	xaminer. Note the attached Oπice	Action or form PTO-152.	
Priority ι	ınder 35 U.S.C. § 119			
12)⊠	Acknowledgment is made of a claim for foreigr	priority under 35 U.S.C. § 119(a	)-(d) or (f).	
a)	⊠ All b) Some * c) None of:			
	1. Certified copies of the priority document	s have been received.		
	2. Certified copies of the priority document	s have been received in Applicati	on No	
	3. Copies of the certified copies of the prior			
	application from the International Burea	u (PCT Rule 17.2(a)).	·	
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.	
Attachmen	t(s)			
_	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte	
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)	
. apc		6) [_] Other:		

Art Unit: 2615

## **DETAILED ACTION**

Page 2

# Response to Arguments

1. Applicant's arguments filed 7/29/05 have been fully considered but they are not persuasive as to claims 24-41.

For claims 24, 31, 37 and 41, the applicant argues that the Paff reference (U.S. Patent 5,164,827) does not teach or suggest "a reception unit adapted to received information of a size of an object or a distance to the object, for detecting a desired object, from an external apparatus, via a communication interface," as recited in claim 24, because the coordinate position information received by the slave cameras in Paff is distinguishable from the size or distance information of an object recited in claim 24 (See REMARKS page 12, lines 14-19).

The examiner disagrees. The Paff reference discloses that the master camera MD broadcasts the coordinate position of the subject S and a desired rang value to all the slave cameras SD1-SD5 (See Paff reference Col. 6, lines 56-60). The "coordinate position of the subject S and a desired rang value" is the distance information of an object clearly.

The applicant argues that the Paff reference does not teach or suggest, "a detection unit adapted to detect that the desired object exists in a predetermined range ...transmit information corresponding to a detection result of said detection unit to the external apparatus via the communication interface..." as recited claim 24, because nowhere in Paff is it discussed that the slave cameras SD1-SD5 transmit information to the master camera MD (See REMARKS page12, line 21 through page 13, line 6).

Art Unit: 2615

The examiner disagrees. The examiner clearly states the master camera MD and monitoring station 11 are considered as the "external apparatus" in the previous examiner previous Office Action mailed on 4/29/05 (See the Office Action page 4, lines 15-17). If distance from a slave camera 2 to the desired object S is determined to be within the desired range, i.e., a radius of 30 feet as a predetermined range, the slave camera SD2 adjust its pan, tilt and zoom status (See Paff's Col. 7, lines 10-16); and the slave camera SD2 transmit detection of the desired object to the monitor station 11 for displaying the image of desired object on the monitors via the communication interface 21; otherwise if out of the predetermined range, the slave camera SD2 does not transmit detection of the desired object to monitor station 11 (See Paff's Col. 7, lines 54-66). For this reason, the Paff reference discloses that the slave cameras SD1-SD5 transmit information (images of the object) to the external apparatus (monitoring station 11).

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 24-25, 31-32, 37-38 and 41 rejected under 35 U.S.C. 102(b) as being anticipated by Paff U.S. Patent 5,164,827.

Referring to claim 24, the Paff reference discloses in Figures 1-6, an image processing apparatus (any one of the slave cameras SD1-SD5 is considered as the image processing apparatus) comprising: an input unit adapted to input image data (e.g., image and lens assembly 17, each of slave cameras SD1-SD5 has the same component configuration as the master camera MD, see Col. 3, lines 29-30 and Col. 3, lines 58-62); a reception unit adapted to receive information of a distance to the object, for detecting a desired object, form an external apparatus (the master camera MD and monitoring station 11 are considered as the "external apparatus"; the master camera broadcasts the coordinate position of the object S and a desired range value as the "information of a distance to the object" to any one of slave cameras SD1-SD5, see Col. 6, lines 56-60), via a communication interface (bidirectional communications paths 21, see Col. 3, lines 25-27); a detection unit adapted to detect that the desired object (e.g., the slave camera SD2 first determines the distance between its projected position in plane 2 of the desired object for detecting the distance DSD2 between the slave camera SD2 and the object S, see Col. 6, lines 62-65 and Col. 7, lines 1-9) exists in a predetermined range, on the basis of the information received said reception unit from the image data input by said input unit and a transmission unit adapted as shown in Figure 5, to transmit information corresponding to a detection result of said detection unit to the external apparatus via the communication interface, in a case in which said detection unit detects that the desired object exists in the predetermined range (e.g., if the distance from a slave camera 2 to the desired object S is determined to be within the desired range, i.e., a radius of 30 feet as "the predetermined range", the slave camera SD2 will adjust its pan, tilt and zoom status, see Col. 7, lines 10-16; and the slave camera SD2 will reflecting detection

of the desired object to the monitor station 11 for displaying the image of desired object on the monitors via the communication interface 21; otherwise if out of the predetermined range, the slave camera SD2 will not reflecting detection of the desired object to monitor station 11, see Col. 7, lines 54-66).

Referring to claim 25, the Paff reference discloses wherein said input unit of video slave camera SD comprises an image pickup unit (17, each of slave cameras SD1-SD5 has the same component configuration as the master camera MD, see Col. 3, lines 29-30 and Col. 3, lines 58-62) adapted to pick up the object image through an optical system.

Referring to claim 31, the Paff reference discloses all subject matter as discussed with respected to same comment as with claim 24.

Referring to claim 32, the Paff reference discloses all subject matter as discussed with respected to same comment as with claim 25.

Referring to claim 37, the Paff reference discloses in Figures 1-6, an terminal apparatus (any one of the slave cameras SD1-SD5 is considered as the terminal apparatus) comprising: an input unit (image and lens assembly 17, each of slave cameras SD1-SD5 has the same component configuration as the master camera MD, see Col. 3, lines 29-30 and Col. 3, lines 58-62) adapted to input image data; a reception unit adapted to receive information of a distance to the object, for detecting a desired object, form an external apparatus (the master camera MD and monitoring station 11 are considered as the "external apparatus"; the master camera **broadcasts** the coordinate position of the object S and a desired range value as the "information of a distance to the object" to any one of slave cameras SD1-SD5, see Col. 6, lines 56-60), via a communication interface (bidirectional communications paths 21,

Art Unit: 2615

see Col. 3, lines 25-27); a detection unit adapted to detect that the desired object (e.g., the slave camera SD2 first determines the distance between its projected position in plane 2 and the received coordinate position in the plane 2 of the desired object for detecting the distance DsD2 between the slave camera SD2 and the object S, see Col. 6, lines 62-65 and Col. 7, lines 1-9) exists in a predetermined range, on the basis of the information received by said reception unit from the image data input by said input unit and a transmission unit adapted as shown in Figure 5, to transmit information corresponding to a detection result of said detection unit to another external apparatus via the communication interface, in a case in which said detection unit detects that the desired object exists in the predetermined range (and if distance from a slave camera 2 to the desired object S is determined to be within the desired range, i.e., a radius of 30 feet as the "predetermined range", the slave camera SD2 adjust its pan, tilt and zoom status, see Col. 7, lines 10-16; and the slave camera SD2 transmits detection of the desired object to the monitor station 11 for displaying the image of desired object on the monitors via the communication interface 21; otherwise if out of the predetermined range, the slave camera SD2 transmits detection of the desired object to monitor station 11, see Col. 7, lines 54-66).

Referring to claim 38, the Paff reference discloses all subject matter as discussed with respected to same comment as with claims 25 and 37.

Referring to claim 41, the Paff reference discloses all subject matter as discussed with respected to same comment as with claim 37.

Art Unit: 2615

plane 2.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

5. Claims 26, 27,30, 33-34 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Paff U.S. Patent 5,164,827 in view of Salvati U.S. Patent 6,359,644.

Referring to claim 26, the Paff reference discloses all subject matter as discussed with respected to claim 25, but except the Paff reference does not states the surveillance camera system can use focusing control information to measure the distance from the object to the predetermined position instead of the coordinates of the selected position in the reference

The Salvati reference discloses in Figure 2, a video camera (10) comprises a lens system having selected optical characteristics and a CCD imager. The system includes a microprocessor/CPU that calculates the size of the target object by mathematically manipulating the optical characteristics, the focus data, the zoom data, and pixel data. The exact object distance is determined by feedback from the focus motor and calculating the deviation from zero. (See Col. 5, lines 25-30). This would be an advantage over the Paff's surveillance camera system in that it could achieve to change an object image into a distance image for the purpose of recognizing objects and get more accurate distance result as taught by Salvati. For that reason, it would have been obvious to one of ordinary skill in the art at

Page 8

the time to see the surveillance camera can associate the focusing control information for measuring the distance from the detected object to the predetermined position disclosed by Paff.

Referring to claim 27, the Paff and Salvati references disclose all subject matter as discussed with respected to claim 26, and the Salvati reference discloses wherein the image pickup unit comprises a zoom control unit adapted to control zooming of the optical system, and said detection unit detects the object according to zoom control information generated by the zoom control unit (e.g., The Salvati's system includes a microprocessor/CPU that calculates the size and distance of the target object by mathematically manipulating the focus data, the zoom data. The exact object distance is determined by feedback from the focus motor and calculating the deviation from zero and the magnification factor M is determined by the position of the zoom servo-feedbacks 17, see Col. 5, lines 25-30).

Referring to claim 30, the Paff and Salvati references disclose all subject matter as discussed with respected to claim 26, and the Paff reference discloses wherein said image processing apparatus is used in a monitoring camera system (video surveillance system, See Col. 1, lines 5-10).

Referring to claim 33, the Paff and Salvati references disclose all subject matter as discussed with respected to same comment as with claims 26 and 31-32.

Referring to claim 34, the Paff and Salvati references disclose all subject matter as discussed with respected to same comment as with claims 27 and 31-32.

Referring to claim 39, the Paff and Salvati references disclose all subject matter as discussed with respected to same comment as with claims 26 and 37-38.

Referring to claim 40, the Paff and Salvati references disclose all subject matter as discussed with respected to same comment as with claims 27 and 37-38.

6. Claims 28-29, 35-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paff U.S. Patent 5,164,827 in view of Karmann et al. U.S. Patent 5,034,986.

Referring to claim 28, the Paff reference discloses all subject matter as discussed with respected to claim 24, but except the Paff reference does not explicitly states the detection unit of slave cameras detects the object according to a difference value between pictures instead that master broadcast the coordinate position of the object.

The Karmann reference teaches in Figures 1-2, a detecting and tracking moving object system calculating a sequence of binary object masks by binarization of a difference image sequence formed from the input image sequence and the background image sequence using a threshold and determining the positions and size of the binary object (See Col. 3, lines 13-18 and lines 23-25). The Karmann reference is evidenced that one of ordinary skill in the art at the time of the invention to see more advantages for the image processing apparatus can detect the moving object according to a difference value between pictures so that the apparatus can quickly track and determine the position of desired object without waiting for external input. For that reason, it would have been obvious to modify the system of Paff by providing the detection unit of slave cameras detects the object according to a difference value between pictures as taught by Karmann.

Referring to claim 29, the Paff and Karmann references disclose all subject matter as discussed with respected to claim 28, and the Karmann reference discloses wherein said

detection unit binarizes the difference value by using a predetermined threshold and detects the object according to a binarization result (See Col. 3, lines 13-18 and Col. 4, lines 34-42).

Referring to claim 35, the Paff and Karmann references disclose all subject matter as discussed with respected to same comment as with claim 28.

Referring to claim 36, the Paff and Karmann references disclose all subject matter as discussed with respected to same comment as with claim 29.

#### Conclusion

7. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lin Ye whose telephone number is (571) 272-7372. The examiner can normally be reached on Mon-Fri 8:00AM-5:00PM.

Art Unit: 2615

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lin Ye September 16, 2005 DAVID L. OMETZ SUPERVISORY PATENT